# Chiara Zurzolo

List of Publications by Year
in descending order



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|---|---|---|---|
| 115 papers | 8,436 citations | 41258 49 h-index | 48187 88 g-index |
| 121 all docs | 121 docs citations | 121 times ranked | 7973 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Requirement for Caveolin-1 and Associated Kinase Fyn in Integrin Signaling and Anchorage-Dependent Cell Growth. Cell, 1998, 94, 625-634. | 13.5 | 675 |
| 2 | Prions hijack tunnelling nanotubes for intercellular spread. Nature Cell Biology, 2009, 11, 328-336. | 4.6 | 539 |
| 3 | Small Misfolded Tau Species Are Internalized via Bulk Endocytosis and Anterogradely and Retrogradely Transported in Neurons. Journal of Biological Chemistry, 2013, 288, 1856-1870. | 1.6 | 436 |
| 4 | Lipids as Targeting Signals: Lipid Rafts and Intracellular Trafficking. Traffic, 2004, 5, 247-254. | 1.3 | 319 |
| 5 | Wiring through tunneling nanotubes â€“ from electrical signals to organelle transfer. Journal of Cell Science, 2012, 125, 1089-1098. | 1.2 | 297 |
| 6 | Tunneling nanotubes spread fibrillar Î±â€synuclein by intercellular trafficking of lysosomes. EMBO Journal, 2016, 35, 2120-2138. | 3.5 | 286 |
| 7 | Protein oligomerization modulates raft partitioning and apical sorting of GPI-anchored proteins. Journal of Cell Biology, 2004, 167, 699-709. | 2.3 | 218 |
| 8 | Î±-Synuclein transfer between neurons and astrocytes indicates that astrocytes play a role in degradation rather than in spreading. Acta Neuropathologica, 2017, 134, 789-808. | 3.9 | 182 |
| 9 | Tunneling Nanotubes and Gap Junctionsâ€“Their Role in Long-Range Intercellular Communication during Development, Health, and Disease Conditions. Frontiers in Molecular Neuroscience, 2017, 10, 333. | 1.4 | 181 |
| 10 | Glycosylphosphatidylinositol-anchored proteins are preferentially targeted to the basolateral surface in Fischer rat thyroid epithelial cells.. Journal of Cell Biology, 1993, 121, 1031-1039. | 2.3 | 159 |
| 11 | The highways and byways of prion protein trafficking. Trends in Cell Biology, 2005, 15, 102-111. | 3.6 | 158 |
| 12 | Transfer of polyglutamine aggregates in neuronal cells occurs in tunneling nanotubes. Journal of Cell Science, 2013, 126, 3678-85. | 1.2 | 157 |
| 13 | VIP21/caveolin, glycosphingolipid clusters and the sorting of glycosylphosphatidylinositol-anchored proteins in epithelial cells.. EMBO Journal, 1994, 13, 42-53. | 3.5 | 154 |
| 14 | Correlative cryo-electron microscopy reveals the structure of TNTs in neuronal cells. Nature Communications, 2019, 10, 342. | 5.8 | 154 |
| 15 | Identification of an Intracellular Site of Prion Conversion. PLoS Pathogens, 2009, 5, e1000426. | 2.1 | 152 |
| 16 | Tunneling nanotubes: A possible highway in the spreading of tau and other prion-like proteins in neurodegenerative diseases. Prion, 2016, 10, 344-351. | 0.9 | 151 |
| 17 | Multifaceted Roles of Tunneling Nanotubes in Intercellular Communication. Frontiers in Physiology, 2012, 3, 72. | 1.3 | 136 |
| 18 | Myo10 is a key regulator of TNT formation in neuronal cells. Journal of Cell Science, 2013, 126, 4424-4435. | 1.2 | 135 |

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|---|---|---|---|
| 19 | Caveolin Transfection Results in Caveolae Formation but Not Apical Sorting of Glycosylphosphatidylinositol (GPI)-anchored Proteins in Epithelial Cells. Journal of Cell Biology, 1998, 140, 617-626. | 2.3 | 130 |
| 20 | The cell biology of prion-like spread of protein aggregates: mechanisms and implication in neurodegeneration. Biochemical Journal, 2013, 452, 1-17. | 1.7 | 126 |
| 21 | PrPCAssociation with Lipid Rafts in the Early Secretory Pathway Stabilizes Its Cellular Conformation. Molecular Biology of the Cell, 2004, 15, 4031-4042. | 0.9 | 125 |
| 22 | Detergent-insoluble GPIâ€"anchored Proteins Are Apically Sorted in Fischer Rat Thyroid Cells, but Interference with Cholesterol or Sphingolipids Differentially Affects Detergent Insolubility and Apical Sorting. Molecular Biology of the Cell, 2000, 11, 531-542. | 0.9 | 114 |
| 23 | Glycosylphosphatidylinositol-anchored proteins: Membrane organization and transport. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 632-639. | 1.4 | 106 |
| 24 | The spread of prion-like proteins by lysosomes and tunneling nanotubes: Implications for neurodegenerative diseases. Journal of Cell Biology, 2017, 216, 2633-2644. | 2.3 | 105 |
| 25 | GPI-anchored proteins are directly targeted to the apical surface in fully polarized MDCK cells. Journal of Cell Biology, 2006, 172, 1023-1034. | 2.3 | 104 |
| 26 | Differential identity of Filopodia and Tunneling Nanotubes revealed by the opposite functions of actin regulatory complexes. Scientific Reports, 2016, 6, 39632. | 1.6 | 93 |
| 27 | Modulation of transcytotic and direct targeting pathways in a polarized thyroid cell line.. EMBO Journal, 1992, 11, 2337-2344. | 3.5 | 91 |
| 28 | PrPCIs Sorted to the Basolateral Membrane of Epithelial Cells Independently of its Association with Rafts. Traffic, 2002, 3, 810-821. | 1.3 | 85 |
| 29 | Mycolactone activation of Wiskott-Aldrich syndrome proteins underpins Buruli ulcer formation. Journal of Clinical Investigation, 2013, 123, 1501-1512. | 3.9 | 79 |
| 30 | Tunnelling nanotubes. Prion, 2009, 3, 94-98. | 0.9 | 78 |
| 31 | Plasma membrane and lysosomal localization of CB1 cannabinoid receptor are dependent on lipid rafts and regulated by anandamide in human breast cancer cells. FEBS Letters, 2005, 579, 6343-6349. | 1.3 | 76 |
| 32 | Different GPI-attachment signals affect the oligomerisation of GPI-anchored proteins and their apical sorting. Journal of Cell Science, 2008, 121, 4001-4007. | 1.2 | 75 |
| 33 | Tunneling Nanotubes: The Fuel of Tumor Progression?. Trends in Cancer, 2020, 6, 874-888. | 3.8 | 74 |
| 34 | Patient-derived glioblastoma stem cells transfer mitochondria through tunneling nanotubes in tumor organoids. Biochemical Journal, 2021, 478, 21-39. | 1.7 | 74 |
| 35 | The Ways of Actin: Why Tunneling Nanotubes Are Unique Cell Protrusions. Trends in Cell Biology, 2021, 31, 130-142. | 3.6 | 70 |
| 36 | Tunneling nanotubes: Reshaping connectivity. Current Opinion in Cell Biology, 2021, 71, 139-147. | 2.6 | 69 |

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|---|---|---|---|
| 37 | Opposite polarity of virus budding and of viral envelope glycoprotein distribution in epithelial cells derived from different tissues.. Journal of Cell Biology, 1992, 117, 551-564. | 2.3 | 68 |
| 38 | Prion aggregates transfer through tunneling nanotubes in endocytic vesicles. Prion, 2015, 9, 125-135. | 0.9 | 67 |
| 39 | Astrocyte-to-neuron intercellular prion transfer is mediated by cell-cell contact. Scientific Reports, 2016, 6, 20762. | 1.6 | 67 |
| 40 | Distinct v-SNAREs regulate direct and indirect apical delivery in polarized epithelial cells. Journal of Cell Science, 2007, 120, 3309-3320. | 1.2 | 66 |
| 41 | Defined Î±-synuclein prion-like molecular assemblies spreading in cell culture. BMC Neuroscience, 2014, 15, 69. | 0.8 | 66 |
| 42 | Delivery of Na+,K(+)-ATPase in polarized epithelial cells. Science, 1993, 260, 550-552. | 6.0 | 65 |
| 43 | Sorting of GPI-anchored proteins from yeast to mammals â€“ common pathways at different sites?. Journal of Cell Science, 2014, 127, 2793-801. | 1.2 | 63 |
| 44 | Peering into tunneling nanotubesâ€"The path forward. EMBO Journal, 2021, 40, e105789. | 3.5 | 63 |
| 45 | Identification and Characterization of Tunneling Nanotubes for Intercellular Trafficking. Current Protocols in Cell Biology, 2015, 67, 12.10.1-12.10.21. | 2.3 | 59 |
| 46 | The prion-like spreading of Î±-synuclein: From in vitro to in vivo models of Parkinsonâ€™s disease. Ageing Research Reviews, 2019, 50, 89-101. | 5.0 | 59 |
| 47 | Oligomerization Is a Specific Requirement for Apical Sorting of Glycosyl-Phosphatidylinositol-Anchored Proteins but Not for Non-Raft-Associated Apical Proteins. Traffic, 2007, 8, 251-258. | 1.3 | 54 |
| 48 | Fine intercellular connections in development: TNTs, cytonemes, or intercellular bridges?. Cell Stress, 2020, 4, 30-43. | 1.4 | 54 |
| 49 | VIP21/caveolin, glycosphingolipid clusters and the sorting of glycosylphosphatidylinositol-anchored proteins in epithelial cells. EMBO Journal, 1994, 13, 42-53. | 3.5 | 54 |
| 50 | Detergent-resistant membrane domains but not the proteasome are involved in the misfolding of a PrP mutant retained in the endoplasmic reticulum. Journal of Cell Science, 2006, 119, 433-442. | 1.2 | 51 |
| 51 | Î±-Adducin mutations increase Na/K pump activity in renal cells by affecting constitutive endocytosis: implications for tubular Na reabsorption. American Journal of Physiology - Renal Physiology, 2008, 295, F478-F487. | 1.3 | 51 |
| 52 | The Wnt/Ca <sup>2+</sup> pathway is involved in interneuronal communication mediated by tunneling nanotubes. EMBO Journal, 2019, 38, e101230. | 3.5 | 50 |
| 53 | Sensitivity of Polarized Epithelial Cells to the Pore-Forming Toxin Aerolysin. Infection and Immunity, 2003, 71, 739-746. | 1.0 | 49 |
| 54 | Lipid Rafts and Clathrin Cooperate in the Internalization of PrPC in Epithelial FRT Cells. PLoS ONE, 2009, 4, e5829. | 1.1 | 48 |

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| 55 | Î±-Synuclein fibrils subvert lysosome structure and function for the propagation of protein misfolding between cells through tunneling nanotubes. PLoS Biology, 2021, 19, e3001287. | 2.6 | 45 |
| 56 | Characterization of the role of dendritic cells in prion transfer to primary neurons. Biochemical Journal, 2010, 431, 189-198. | 1.7 | 43 |
| 57 | Golgi sorting regulates organization and activity of GPI proteins at apical membranes. Nature Chemical Biology, 2014, 10, 350-357. | 3.9 | 42 |
| 58 | Fate and propagation of endogenously formed Tau aggregates in neuronal cells. EMBO Molecular Medicine, 2020, 12, e12025. | 3.3 | 41 |
| 59 | Polarity signals in epithelial cells. Journal of Cell Science, 1993, 1993, 9-12. | 1.2 | 40 |
| 60 | Modulation of transcytotic and direct targeting pathways in a polarized thyroid cell line. EMBO Journal, 1992, 11, 2337-44. | 3.5 | 40 |
| 61 | Cell Biology of Prion Protein. Progress in Molecular Biology and Translational Science, 2017, 150, 57-82. | 0.9 | 38 |
| 62 | Development of antibody fragments for immunotherapy of prion diseases. Biochemical Journal, 2009, 418, 507-515. | 1.7 | 37 |
| 63 | Characterization of the Properties and Trafficking of an Anchorless Form of the Prion Protein. Journal of Biological Chemistry, 2007, 282, 22747-22756. | 1.6 | 36 |
| 64 | Drosophila cells use nanotube-like structures to transfer dsRNA and RNAi machinery between cells. Scientific Reports, 2016, 6, 27085. | 1.6 | 36 |
| 65 | Effect of tolytoxin on tunneling nanotube formation and function. Scientific Reports, 2019, 9, 5741. | 1.6 | 36 |
| 66 | Selective Roles for Cholesterol and Actin in Compartmentalization of Different Proteins in the Golgi and Plasma Membrane of Polarized Cells. Journal of Biological Chemistry, 2008, 283, 29545-29553. | 1.6 | 35 |
| 67 | Trafficking and Membrane Organization of GPI-Anchored Proteins in Health and Diseases. Current Topics in Membranes, 2015, 75, 269-303. | 0.5 | 35 |
| 68 | 4-hydroxytamoxifen leads to PrPSc clearance by conveying both PrPC and PrPSc to lysosomes independently of autophagy. Journal of Cell Science, 2013, 126, 1345-54. | 1.2 | 34 |
| 69 | Organization of GPI-anchored proteins at the cell surface and its physiopathological relevance. Critical Reviews in Biochemistry and Molecular Biology, 2018, 53, 403-419. | 2.3 | 34 |
| 70 | Rab11a-Rab8a cascade regulate the formation of tunneling nanotubes through vesicle recycling. Journal of Cell Science, 2018, 131, . | 1.2 | 30 |
| 71 | N-Glycosylation instead of cholesterol mediates oligomerization and apical sorting of GPI-APs in FRT cells. Molecular Biology of the Cell, 2011, 22, 4621-4634. | 0.9 | 28 |
| 72 | Actin Assembly around the Shigella-Containing Vacuole Promotes Successful Infection. Cell Reports, 2020, 31, 107638. | 2.9 | 28 |

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| 73 | Rab35 and its effectors promote formation of tunneling nanotubes in neuronal cells. Scientific Reports, 2020, 10, 16803. | 1.6 | 26 |
| 74 | Prions: Protein Only or Something More? Overview of Potential Prion Cofactors. Journal of Molecular Neuroscience, 2006, 29, 195-214. | 1.1 | 25 |
| 75 | <i>N</i>â€•and <i>O</i>â€Glycans Are Not Directly Involved in the Oligomerization and Apical Sorting of GPI Proteins. Traffic, 2008, 9, 2141-2150. | 1.3 | 22 |
| 76 | A y+LAT-1 mutant protein interferes with y+LAT-2 activity: implications for the molecular pathogenesis of lysinuric protein intolerance. European Journal of Human Genetics, 2005, 13, 628-634. | 1.4 | 21 |
| 77 | Analysis of detergent-resistant membranes associated with apical and basolateral GPI-anchored proteins in polarized epithelial cells. FEBS Letters, 2006, 580, 5705-5712. | 1.3 | 19 |
| 78 | The polarized epithelial phenotype is dominant in hybrids between polarized and unpolarized rat thyroid cell lines. Journal of Cell Science, 1991, 98, 65-73. | 1.2 | 19 |
| 79 | Clustering in the Golgi apparatus governs sorting and function of GPIâ€APs in polarized epithelial cells. FEBS Letters, 2019, 593, 2351-2365. | 1.3 | 18 |
| 80 | Polarized secretion of plasminogen activators by epithelial cell monolayers. Biochimica Et Biophysica Acta - Molecular Cell Research, 1992, 1175, 1-6. | 1.9 | 17 |
| 81 | Detergent-resistant membrane microdomains and apical sorting of GPI-anchored proteins in polarized epithelial cells. International Journal of Medical Microbiology, 2001, 291, 439-445. | 1.5 | 17 |
| 82 | Cluvenone induces apoptosis via a direct target in mitochondria: a possible mechanism to circumvent chemo-resistance?. Investigational New Drugs, 2012, 30, 1841-1848. | 1.2 | 17 |
| 83 | The 37/67kDa laminin receptor (LR) inhibitor, NSC47924, affects 37/67kDa LR cell surface localization and interaction with the cellular prion protein. Scientific Reports, 2016, 6, 24457. | 1.6 | 17 |
| 84 | Human NPCs can degrade Î±â€“syn fibrils and transfer them preferentially in a cell contact-dependent manner possibly through TNT-like structures. Neurobiology of Disease, 2019, 132, 104609. | 2.1 | 17 |
| 85 | Detergent Insoluble Microdomains are not Involved in Transcytosis of Polymeric Ig Receptor in FRT and MDCK Cells. Traffic, 2000, 1, 794-802. | 1.3 | 16 |
| 86 | Doppel and PrPC co-immunoprecipitate in detergent-resistant membrane domains of epithelial FRT cells. Biochemical Journal, 2010, 425, 341-351. | 1.7 | 16 |
| 87 | Exploring the role of lipids in intercellular conduits: breakthroughs in the pipeline. Frontiers in Plant Science, 2013, 4, 504. | 1.7 | 16 |
| 88 | Trafficking and degradation pathways in pathogenic conversion of prions and prion-like proteins in neurodegenerative diseases. Virus Research, 2015, 207, 146-154. | 1.1 | 15 |
| 89 | Transfer of disrupted-in-schizophrenia 1 aggregates between neuronal-like cells occurs in tunnelling nanotubes and is promoted by dopamine. Open Biology, 2017, 7, 160328. | 1.5 | 15 |
| 90 | Regulation of sub-compartmental targeting and folding properties of the Prion-like protein Shadoo. Scientific Reports, 2017, 7, 3731. | 1.6 | 14 |

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|---|---|---|---|
| 91 | Functional interaction between p75NTR and TrkA: the endocytic trafficking of p75NTR is driven by TrkA and regulates TrkA-mediated signalling. Biochemical Journal, 2005, 385, 233-241. | 1.7 | 13 |
| 92 | Determining the role of mononuclear phagocytes in prion neuroinvasion from the skin. Journal of Leukocyte Biology, 2012, 91, 817-828. | 1.5 | 13 |
| 93 | The Fate of <scp>PrP GPI</scp>â€Anchor Signal Peptide is Modulated by <scp>P238S</scp> Pathogenic Mutation. Traffic, 2014, 15, 78-93. | 1.3 | 13 |
| 94 | The Priority position paper: Protecting Europe's food chain from prions. Prion, 2016, 10, 165-181. | 0.9 | 13 |
| 95 | Mechanisms of apical protein sorting in polarized thyroid epithelial cells. Biochimie, 1999, 81, 347-353. | 1.3 | 12 |
| 96 | Coexpression of Wild-type and Mutant Prion Proteins Alters Their Cellular Localization and Partitioning into Detergent-resistant Membranes. Traffic, 2008, 9, 1101-1115. | 1.3 | 12 |
| 97 | Gene expression profile of quinacrine-cured prion-infected mouse neuronal cells. Journal of Neurochemistry, 2008, 105, 239-250. | 2.1 | 12 |
| 98 | Calcium levels in the Golgi complex regulate clustering and apical sorting of GPI-APs in polarized epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 12 |
| 99 | Functional properties of normal and inverted rat thyroid follicles in suspension culture. Journal of Cellular Physiology, 1986, 126, 93-98. | 2.0 | 10 |
| 100 | Cell Surface Biotinylation Techniques. , 1994, , 185-192. | | 10 |
| 101 | The neuroendocrine protein VGF is sorted into dense-core granules and is secreted apically by polarized rat thyroid epithelial cells. Experimental Cell Research, 2004, 295, 269-280. | 1.2 | 10 |
| 102 | The Shp-1 and Shp-2, tyrosine phosphatases, are recruited on cell membrane in two distinct molecular complexes including Ret oncogenes. Cellular Signalling, 2004, 16, 847-856. | 1.7 | 9 |
| 103 | Differential Recognition of a Tyrosine-Dependent Signal in the Basolateral and Endocytic Pathways of Thyroid Epithelial Cells. Endocrinology, 2002, 143, 1291-1301. | 1.4 | 8 |
| 104 | Ischaemia impacts TNT-mediated communication between cardiac cells. Current Research in Cell Biology, 2020, 1, 100001. | 2.4 | 8 |
| 105 | PrPC Undergoes Basal to Apical Transcytosis in Polarized Epithelial MDCK Cells. PLoS ONE, 2016, 11, e0157991. | 1.1 | 6 |
| 106 | GPI-anchored proteins are confined in subdiffraction clusters at the apical surface of polarized epithelial cells. Biochemical Journal, 2017, 474, 4075-4090. | 1.7 | 6 |
| 107 | Not on the menu. Prion, 2013, 7, 286-290. | 0.9 | 4 |
| 108 | Seeing eye to eye: photoreceptors employ nanotubeâ€like connections for material transfer. EMBO Journal, 2021, 40, e109727. | 3.5 | 4 |

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| 109 | Evidence that tunnelling nanotube-like structures connect cells in mice. Nature, 2020, 585, 32-33. | 13.7 | 3 |
| 110 | Cytosolically expressed PrP GPI-signal peptide interacts with mitochondria. Communicative and Integrative Biology, 2015, 8, e1036206. | 0.6 | 2 |
| 111 | Glycosphingolipid clusters and the sorting of GPI-anchored proteins in epithelial cells. Brazilian Journal of Medical and Biological Research, 1994, 27, 317-22. | 0.7 | 2 |
| 112 | Chapter 14 Mechanisms of Polarized Sorting of GPI-anchored Proteins in Epithelial Cells. The Enzymes, 2009, , 289-319. | 0.7 | 1 |
| 113 | Cell Surface Biotinylation and Other Techniques for Determination of Surface Polarity of Epithelial Monolayers. , 2006, , 241-249. | | 0 |
| 114 | The best of both worlds- bringing together cell biology and infection at the Institut Pasteur. Microbes and Infection, 2019, 21, 254-262. | 1.0 | 0 |
| 115 | The best of both worldsâ€"bringing together cell biology and infection at the Institut Pasteur. Genes and Immunity, 2019, 20, 426-435. | 2.2 | 0 |